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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER P57960 U.S. APPLICATION NO: (If known, see 37 CFR 1.5) 10/570211
INTERNATIONAL APPLICATION NO. PCT/KR2004/001386	INTERNATIONAL FILING DATE 10 June 2004	PRIORITY DATE CLAIMED KR 10-2003-0071615
TITLE OF INVENTION AUTOMATIC CIRCULATION DEVICE OF WARM WATER		
APPLICANT(S) FOR DO/EO/US YOUNG-BOG RHO et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input checked="" type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included: <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. PTO-1449</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. (contained in the Declaration)</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10656211	INTERNATIONAL APPLICATION NO. PCT/KR2004/001386	ATTORNEY'S DOCKET NUMBER P57960																																																																																																					
20. Other items or information: PTO-1449 and photocopies of the references cited in the PTO-1449 WO 2005/038356 A1																																																																																																							
<table border="1"> <thead> <tr> <th colspan="2">The following fees have been submitted</th> <th>CALCULATIONS</th> <th>PTO USE ONLY</th> </tr> </thead> <tbody> <tr> <td colspan="2">21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....</td> <td>\$ 300</td> <td></td> </tr> <tr> <td colspan="2">22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500</td> <td>\$ 500.00</td> <td></td> </tr> <tr> <td colspan="4">TOTAL OF 21, 22 and 23 =</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td colspan="2"></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>- 100 =</td> <td>/50 =</td> <td></td> <td>x \$250</td> </tr> <tr> <td colspan="2">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$ n/a</td> <td></td> </tr> <tr> <td colspan="2">CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td colspan="2">Total claims</td> <td>12</td> <td>- 20 =</td> <td>x \$ 50</td> </tr> <tr> <td colspan="2">Independent claims</td> <td>1</td> <td>- 3 =</td> <td>x \$200</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$360</td> <td>\$ n/a</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 1,000.00</td> </tr> <tr> <td colspan="5"><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.</td> </tr> <tr> <td colspan="4">SUBTOTAL =</td> <td>\$ 500.00</td> </tr> <tr> <td colspan="5">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). +</td> </tr> <tr> <td colspan="4">TOTAL NATIONAL FEE =</td> <td>\$ 500.00</td> </tr> <tr> <td colspan="5">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +</td> </tr> <tr> <td colspan="4">TOTAL FEES ENCLOSED =</td> <td>\$ 540.00</td> </tr> <tr> <td colspan="4"></td> <td>Amount to be refunded: \$</td> </tr> <tr> <td colspan="4"></td> <td>Amount to be charged \$</td> </tr> </tbody> </table>			The following fees have been submitted		CALCULATIONS	PTO USE ONLY	21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....		\$ 300		22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200		\$ 200.00		23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500		\$ 500.00		TOTAL OF 21, 22 and 23 =				<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). 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10/576211

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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10/576211 10/17 APR 2006

a. A check in the amount of \$ 500.00 (#50710) to cover the above fees is enclosed. (Check #50711 for \$40.00)

b. Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4943. A duplicate copy of this sheet is enclosed.

d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:


SIGNATURE

Robert E. Bushnell

NAME

27,774

REGISTRATION NUMBER

17 April 2006

Date

Customer No. 008439

Attorney's Docket No. P57960
PCT/KR2004/001386 filed 10 June 2004

AP20 Rec'd 17 APR 2006

PTO/SB/17 (08-00)

Approved for use through 9/30/2000. OMB 0651-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL

Patent fees are subject to annual revision.

Complete If Known

11
to be assigned

Application Number	
Filing Date	17 April 2006
First Named Inventor	YOUNG-BOG RHO
I.A. Filing Date	10 June 2004
I.A. No.	PCT/KR2004/001386

TOTAL AMOUNT OF PAYMENT (\$)540.00

Attorney Docket No. P57960

METHOD OF PAYMENT (check one)

FEE CALCULATION

1. Payment Enclosed:
(CHECK #50710 & #50711)

Check Credit Card Money Order
 Other

Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.

Applicant claims small entity status. See 37 CFR 1.27

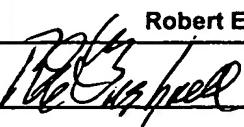
Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
MISCELLANEOUS			
1801	\$790	2801 \$395 Request for continued examination (RCE)	\$
1806	\$180	Submission of an IDS	\$
1814	\$130	2814 \$65 Statutory disclaimer	\$
8021	\$40	8021 Recordation of assignment per property	\$ 40.00
TRADEMARK			
6001/7001	\$335	6001/7001 Application for registration, per class	\$
6002/7002	\$100	6002/7002 Amendment to Allege Use, per class	\$
6003/7003	\$100	6003/7003 Statement of Use, per class	\$
6004/7004	\$150	6004/7004 Request for six-month extension of time, per class	\$
6205/7205	\$100	6205/7205 \$8 affidavit, per class	\$
6208/7208	\$200	6208/7208 \$15 affidavit, per class	\$
6201/7201	\$400	6201/7201 Application for renewal, per class	\$
6403/7403	\$100	6403/7403 Ex parte appeal, per class	\$
PETITION			
1462	\$400	1462 Petitions to Director (Group I)	\$
1463	\$200	1463 Petitions to Director (Group II)	\$
1464	\$130	1464 Petitions to Director (Group III)	\$
1452	\$500	1452 2452 \$250 Petitions to revive unavoidably abandoned application	\$
1453	\$1500	1453 2453 \$750 Petitions to revive unintentionally abandoned application	\$
PATENT MAINTENANCE			
1551	\$900	1551 2551 \$450 Due at 3.5 years	\$
1552	\$2300	1552 2552 \$1150 Due at 7.5 years	\$
1553	\$3800	1553 2553 \$1900 Due at 11.5 years	\$
Other Fee (specify)	\$	Other Fee (specify) 1631/2631 Basic National Stage Fee	\$150.00
Other Fee (specify)	\$	Other Fee (specify) 1641/2641 National Stage Search Fee	\$250.00
Other Fee (specify)	\$	Other Fee (specify) 1633/2633 National Stage Examination Fee	\$100.00

SUBTOTAL: LEFT COLUMN \$ 0.00

SUBTOTAL: RIGHT COLUMN \$540.00

SUBMITTED BY

Complete (if applicable)

Typed or Printed Name	Robert E. Bushnell, Esq.	Reg. Number	27,774
Signature		Date	17 April 2006

REB/ny

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